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TRANSMITTAL LETTER
INFORMATION DISCLOSURE STATEMENT

Applicant : Brownlie et al.
App. No : 10/563,199
Filed : January 3, 2006
For : VACCINE COMPOSITION FOR
VACCINATING DOGS AGAINST
CANINE INFECTIOUS RESPIRATORY
DISEASE (CIRD)
Examiner : Unknown
Art Unit : 1642

CERTIFICATE OF MAILING

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Mail Stop: Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

~~December 15, 2006~~
~~(Date)~~

Marina L. Gordey, Reg. No. 52,950

Mail Stop Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

(X) An Information Disclosure Statement and PTO/SB/08 equivalent listing references for consideration:

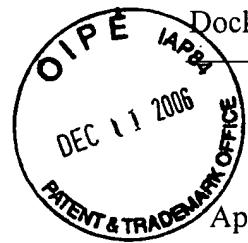
(X) Listing 155 references.

(X) Enclosing 147 references.

(X) Return prepaid postcard.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

Marina L. Gordey
Registration No. 52,950
Agent of Record
Customer No. 20,995
(805) 547-5580



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Dear Sir:

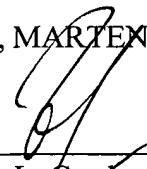
Enclosed for filing in the above-identified application is a PTO/SB/08 Equivalent listing 155 references to be considered by the Examiner. Also enclosed are 147 foreign patent references and/or non-patent literature as listed on the Information Disclosure Statement. Please note the relevance of the Woloszyn reference is that it is cited in the International Search Report for PCT/GB2004/002865.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required. If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

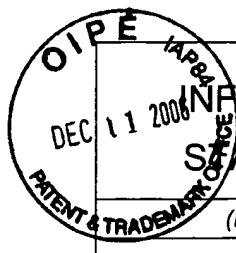
Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: December 5, 2006

By: 

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Registration No. 52,950
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Multiple sheets used when necessary)</i>		Application No.	10/563, 199
		Filing Date	January 3, 2006
		First Named Inventor	Brownlie, John
		Art Unit	1642
SHEET 1 OF 11		Examiner	Unknown
		Attorney Docket No.	ERP02.001APC1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	2003/0021801 A1	01-30-2003	Stephens et al.	
	2	5,583,014	12-10-1996	Brown et al.	
	3	5,672,350	09-30-1997	Parker et al.	
	4	5,750,112	05-12-1998	Gill	
	5	5,916,570	06-29-1999	Kapil	
	6	6,057,436	05-02-2000	Miller et al.	
	7	6,280,974 B1	08-28-2001	Miller et al.	
	8	6,372,224 B1	04-16-2002	Miller et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	9	EP 0 109 942 A2	05-30-1984	Morein	
	10	EP 0 180 564 A2	05-07-1986	Morein	
	11	EP 0 231 039 A1	01-13-1987	DeStaat der Nederlanden et al.	
	12	EP 0 415 794 A1	03-06-1991	Coopers Animal Health Ltd.	
	13	EP 0 510 773 A1	10-28-1992	Akzo N.V.	
	14	EP 1 023 903 A1	08-02-2000	Akzo Nobel N.V.	
	15	GB 2,189,141 A	10-21-1987	Ribi Immunochem Res.	
	16	WO 04/011651 A1	02-05-2004	Royal Veterinary College	
	17	WO 04/032957 A1	04-22-2004	Guss et al.	
	18	WO 86/02355 A1	04-24-1986	Technology License Co. Ltd.	
	19	WO 87/00531 A1	01-29-1987	Technology Licence Company Limited	
	20	WO 93/23423 A1	11-25-1993	Smithkline Beecham Corporation	
	21	WO 98/16643 A1	04-23-1998	Human Genome Sciences, Inc.	
	22	WO 99/25838 A1	05-27-1999	University of Georgia Research Foundation, Inc.	

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MPEP 1401
INFORMATION DISCLOSURE
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SHEET 2 OF 11

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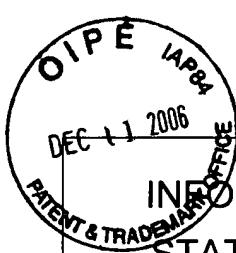
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	23	ANGUS, J.C. et al. 1997 "Microbiological study of transtracheal aspirates from dogs with suspected lower respiratory tract disease: 264 cases (1989-1995)." <i>J. Am. Vet. Med. Assoc.</i> 210:55-58.	
	24	ANZAI, T. et al. 2000 "Comparison of the phenotypes of <i>Streptococcus zooepidemicus</i> isolated from tonsils of healthy horses and specimens obtained from foals and donkeys with pneumonia." <i>Am. J. Vet. Res.</i> 61:162-166.	
	25	APPEL, M. et al. 1987 "Canine infectious tracheobronchitis short review: kennel cough". In: Appel M. (Ed.), <i>Virus Infections of Carnivores</i> . Elsevier. Oxford. pp. 201-211.	
	26	APPEL, M.J.G. et al. 1970 "SV-5-like parainfluenza virus in dogs." <i>J. Am. Vet. Med. Assoc.</i> 156:1778-81.	
	27	ARIZMENDI, F. et al. 1992 "Isolation of <i>Chlamydia psittaci</i> from pleural effusion in a dog." <i>J Vet Diagn Invest.</i> 4:460-3.	
	28	BALAGUER, P. et al. 1991 "Quantification of DNA sequences obtained by polymerase chain reaction using a bioluminescence adsorbent." <i>Anal. Biochem.</i> 195:105-110	
	29	BALTER, S. et al. 2000 "Epidemic nephritis in Nova Serrana, Brazil." <i>The Lancet</i> 355:1776-1780.	
	30	BARILE, M.F. 1985 "Immunization against mycoplasma infections" In: S. Razin and M.F. Barile (Ed.) <i>The Mycoplasmas</i> , vol 4. Mycoplasma pathogenicity. Academic Press, Inc, Orlando, Florida, pp. 451-492.	
	31	BARILE, M.F. et al. 1985 "Current status on the controls of mycoplasma diseases of man, animals, plants and insects." <i>Bull. Inst. Pasteur.</i> 83: 339-373.	
	32	BARRON A.L. (Ed.) 1988 <i>Microbiology of Chlamydia</i> Boca Raton, CRC Press., pp. 168-169.	
	33	BECKER, D.M. et al. 1990 "High-efficiency transformation of yeast by electroporation." <i>Methods Enzymol.</i> 194:182-187.	
	34	BEGGS, J.D. 1978 "Transformation of yeast by a replicating hybrid plasmid." <i>Nature</i> 275:104-109.	
	35	BEMIS, D.A. et al. 1977 "Naturally occurring respiratory disease in a kennel caused by <i>Bordetella bronchiseptica</i> ." <i>Cornell Vet.</i> 67:282-293.	
	36	BEMIS, D.A. et al. 1977 "Pathogenesis of canine bordetellosis." <i>J. Infect. Dis</i> 135:753-762.	

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Art Unit	1642
Examiner	Unknown
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	37	BETTER, M. et al. 1988 "Escherichia coli secretion of an active chimeric antibody fragment." <i>Science</i> 240:1041-1043.				
	38	BHUGRA, B. et al. 1995 "Identification and characterization of genome rearrangements", Chapter B9, in: Razin & Tully (Eds.) <i>Genome Characterisation and Genetics</i> , Section B in <u>Molecular and Diagnostic Procedures in Mycoplasmology</u> . Vol. 1. Academic Press Inc., pp. 195-199				
	39	BIBERSTEIN, E.L. et al. 1980 "Serogroups and biotypes among beta-hemolytic streptococci of canine origin." <i>J. Clin. Microbiol.</i> 11:558-561.				
	40	BIBERSTEIN, E.L. et al. 1999 "Streptococci". In: Hirsh, D.C., Zee, Y.C., (Eds.) <u>Veterinary Microbiology</u> Blackwell Science, Oxford, pp. 120-126.				
	41	BINN, L.N. et al. 1967 "Viruses recovered from laboratory dogs with respiratory disease." <i>Proc. Soc. Exp. Biol. Med.</i> 126:140-145.				
	42	BINN, L.N. et al. 1979 "Studies of respiratory disease in random-source laboratory dogs: viral infections in unconditioned dogs." <i>Lab. Anim. Sci.</i> 29: 48-52.				
	43	BIRD, R.E et al. 1988 "Single-chain antigen-binding proteins." <i>Science</i> 242:423-426.				
	44	CAVANAGH, D. et al. "Coronviridae" in "Virus Taxonomy, 6 th Report of the International Committee on Taxonomy of Viruses", Eds. Murphy et al., Springer-Verlag Wein, New York, pp. 407-411.				
	45	CHALKER, V.J. et al. 2003 "Respiratory disease in kennelled dogs: serological responses to <i>Bordetella bronchiseptica</i> lipopolysaccharide do not correlate with bacterial isolation or clinical respiratory symptoms." <i>Clin. Diagn. Lab Immunol.</i> 10(3):352-6.				
	46	CHALKER, V.J. et al. 2003 "The association of <i>Streptococcus equi</i> subsp. <i>zooepidemicus</i> with canine infectious respiratory disease." <i>Veterinary Microbiol.</i> 95:149-156.				
	47	CHANTER, N. 1997 "Streptococci and enterococci as animal pathogens." <i>J. Appl. Microbiol. Symp. Suppl.</i> 83:100S-109S.				
	48	CHILVERS, M.A. 2001 "The effects of coronavirus on human nasal ciliated respiratory epithelium." <i>Eur. Respir. J.</i> 18:965-70.				
	49	COHEN, S.N. et al. 1972 "Nonchromosomal Antibiotic Resistance in Bacteria: Genetic Transformation of <i>Escherichia coli</i> by R-Factor DNA." <i>PNAS USA</i> 69:2110-2114.				
	50	COMPTON, J. 1991 "Nucleic acid sequence-based amplification." <i>Nature</i> 350:91-92				

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SHEET 4 OF 11

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Art Unit	1642
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	51	CORCORAN, B. 1998 "Cytological collection techniques." In: Luis Fuentes, V. Swift, S., (Eds.), <u>Manual of small animal cardiorespiratory medicine and surgery</u> British Small Anim. Vet. Assoc. Cheltenham. pp. 75-78.				
	52	COYNE, M.J. et al. 1995 "Considerations in using a canine coronavirus vaccine" (published as a Pfizer Technical Bulletin on the Internet at http://www.pfizer.com/ah/vet/tref/trbull/ ccv.html), pp. 1-6				
	53	DATABASE PHIN online 2002 "Nobivac Forcat in Switzerland" <i>Veterinaria News</i> online 2002 (German language document)			Abstract	
	54	DICESARE, B. et al. 1993 "A high-sensitivity electrochemiluminescence-based detection system for automated PCR product quantitation." <i>BioTechniques</i> 15:152-157.				
	55	DITCHFIELD, J. et al. 1962 "Association of a canine adenovirus (Toronto A 26/61) with an outbreak of laryngotracheitis ("kennel cough")." <i>Can. Vet. Jour.</i> 3(8): 238-247				
	56	DURGUT, R. et al. 2003 "Kennel cough syndrome of dogs observed in Ankara province." <i>Indian Vet. J.</i> 80: 743-745				
	57	DYBVIG, K. et al. 1995 "Artificial transformation of mollicutes via polyethylene glycol- and electroporation-mediated methods", Chapter B7 in: Razin & Tully (Eds.) <u>Genome Characterisation and Genetics</u> , Section B in <u>Molecular and Diagnostic Procedures in Mycoplasmology</u> . Vol. 1. Academic Press Inc., pp. 179-184.				
	58	DYBVIG, K. et al. 1995 "Characterization of virus genomes and extrachromosomal elements", Chapter B5 in Razin & Tully (Eds.) "Genome Characterisation and Genetics", Section B in <u>Molecular and Diagnostic Procedures in Mycoplasmology</u> . Vol. 1. Academic Press Inc., pp. 159-166				
	59	ELLIS, J.A. et al. 2001 "Effect of vaccination on experimental infection with <i>Bordetella bronchiseptica</i> in dogs." <i>J. Am. Vet. Med. Assoc.</i> 218(3):367-75.				
	60	ERLES, K. et al. 2003 "Detection of a group 2 coronavirus in dogs with canine infectious respiratory disease." <i>Virology</i> 310:216-223.				
	61	EVERETT, K.D. et al. 1999 "Emended description of the order <i>Chlamydiales</i> , proposal for <i>Parachlamydiaceae</i> fam. Nov. and <i>Simkaniaeae</i> Fam. Nov., each containing one monotypic genus, revised taxonomy of the family <i>Chlamydiaceae</i> , including a new genus and five new species, and standards for the identification of organisms" <i>Int. J. Syst. Bacteriol.</i> 49:415-440				
	62	FARROW, J.A. et al. 1984 "Taxonomic studies on Streptococci of serological groups C, G and L and possibly related taxa." <i>Syst. Appl. Microbiol.</i> 5:483-493.				

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SHEET 5 OF 11

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	63	FELSENSTEIN, J. 1989 "PHYLIP-Phylogeny Inference Package (Version 3.2c)." <i>Cladistics</i> 5:164-166				
	64	FRASER, G et al. 1969 "A case history of psittacosis in the dog." <i>Vet. Rec.</i> 85(3):54-58.				
	65	FUKUSHI, H et al. 1992 "Proposal of <i>Chlamydia pecorum</i> sp. nov. for <i>Chlamydia</i> strains derived from ruminants" <i>Int. J. Syst. Bacteriol.</i> 42:306-308.				
	66	FUKUSHI, H. et al. 1985 "Seroepidemiological surveillance of <i>Chlamydia psittaci</i> in cats and dogs in Japan." <i>Vet Rec.</i> 117: 503-4.				
	67	GARNETT, N.L. 1982 "Hemorrhagic streptococcal pneumonia in newly procured research dogs." <i>J. Am. Vet. Med. Assoc.</i> 181:1371-1374.				
	68	GCG Manual, version 10.3: Section of the Program Manual for the GCG Package, Version 10.3, relating to the GAP alignment (Genetics Computer Group (1982-2002), 575 Science Drive, Madison, Wisconsin, USA 53711), 14 pages (http://helix.nih.gov/docs/gcg/gap.html).				
	69	GENBANK Accession No AF058942, 1991 "Bovine coronavirus strain LY-138 32 kDa putative non-structural protein, hemagglutinin esterase (HE), spike glycoprotein (s), 4.9 kDa putative non-structural protein, 12.7 kDa non-structural protein, structural protein E (E), structural protein M (M), structural protein N (N), and I protein (I) genes, complete cds.", 6 pages.				
	70	GENBANK Accession No. AAM 77000, 2002 "Spike glycoprotein [Porcine hemagglutinating encephalomyelitis virus].", 2 pages.				
	71	GENBANK Accession No. AF124985 1999 "Bovine coronavirus RNA-directed RNA polymerase (pol) gene, partial cds.", 2 pages.				
	72	GENBANK Accession No. AF124986 1999 "Canine coronavirus RNA-directed RNA polymerase (pol) gene, partial cds.", 2 pages.				
	73	GENBANK Accession No. AF124989 1999 "Human coronavirus (strain OC43) RNA-directed RNA polymerase (pol) gene, partial cds.", 2 pages.				
	74	GENBANK Accession No. AF220295, 1999 "Bovine coronavirus strain Quebec, complete genome.", 14 pages.				
	75	GENBANK Accession No. AF481863, 2002 "Porcine hemagglutinating encephalomyelitis virus HE glycoprotein, spike glycoprotein (S), 4.9 kDa nonstructural protein (ns4.9), matrix glycoprotein (M), phosphorylated nucleocapsid protein N, and N2 (N2) genes, complete cds.", 5 pages.				
	76	GENBANK Accession No. L07747, 1994 "Human enteric coronavirus 4408 hemagglutinin-esterase (HE) gene sequence.", 2 pages.				

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	77	GENBANK Accession No. L14643, 1993 "Human coronavirus OC43 spike protein, complete cds."			3 pages.	
	78	GENBANK Accession No. M76373, 1992 "Huuman coronavirus OC43 hemagglutinin-esterase (HE) gene, complete cds.", 2 pages.				
	79	GENBANK Accession No. M84486, 1993 "Bovine coronavirus strain LY138 hemagglutinin/esterase glycoprotein (HE) gene.", 2 pages.				
	80	GENBANK Accession No. Z32768 1994 "Human coronavirus OC43 gene for surface protein", 3 pages.				
	81	GRAND LABORATORIES, INC. (2000) Technical Information on Scour Bos TM 4, 2 pages (http://www.grandlab.com/bioproducts)				
	82	GRAYSTON, J.T. et al. 1989 "Chlamydia pneumoniae sp. nov. for Chlamydia sp. strain TWAR" <i>Int. J. Syst. Bacteriol.</i> 39: 88-90.				
	83	GRESHAM, A.C.J. et al. 1996 "Domiciliary outbreak of psittacosis in dogs: potential for zoonotic infection." <i>Vet. Rec.</i> 138(25):622-3.				
	84	HASOKSUZ, M. et al. 1999 "Antigenic variation among bovine enteric coronaviruses (BECV) and bovine respiratory coronaviruses (BRCV) detected using monoclonal antibodies." <i>Arch. Virol.</i> 144(12): 2441-7				
	85	HECHARD, C. et al. 2002 "Protection evaluation against <i>Chlamydia abortus</i> challenge by DNA vaccination with a dnaK-encoding plasmid in pregnant and non-pregnant mice." <i>Vet. Res.</i> 33: 313-326.				
	86	HUSTON, J.S. et al. 1988 "Protein engineering of antibody binding sites: recovery of specific activity in an anti-digoxin single chain Fv analogue produced in <i>Escherichia coli</i> ." <i>PNAS USA</i> 85:5879-5883				
	87	IACOBELLI, S. et al. 1988 "Measurement of a breast cancer associated antigen detected by monoclonal antibody SP-2 in sera of cancer patients." <i>Breast Cancer Res. Treat.</i> 11:19-30.				
	88	IGNJATOVIC, J. et al. 2000 "Avian infectious bronchitis virus." <i>Rev. Sci. Tech. Off. Int. Epiz.</i> 19:493-508.				
	89	JACOBS, K.A. et al. 1988 "The thermal stability of oligonucleotide duplexes is sequence independent in tetraalkylammonium salt solutions: application to identifying recombinant DNA clones." <i>Nucl. Acids Res.</i> 16:4637-4650.				
	90	JALKANEN, M. et al. 1985 "Heparan sulfate proteoglycans from mouse mammary epithelial cells: localization on the cell surface with a monoclonal antibody" <i>J. Cell. Biol.</i> 101: 976-984.				

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	91	JALKANEN, M. et al. 1987 "Cell surface proteoglycan of mouse mammary epithelial cells is shed by cleavage of its matrix-binding ectodomain from its membrane-associated domain" <i>J. Cell. Biol.</i> 105: 3087-3096				
	92	JANG, S.S., et al. 1984 "Mycoplasma as a cause of canine urinary tract infection." <i>J. Am. Vet. Med. Assoc.</i> 185(1):45-7				
	93	KARPAS, A. et al. 1968 "Canine tracheobronchitis: Isolation and characterization of the agent with experimental reproduction of the disease (32618)." <i>Proc. Soc. Exp. Biol. Med.</i> 127:45-52.				
	94	KARPAS, A. et al. 1968 "Experimental production of canine tracheobronchitis (kennel cough) with canine herpesvirus isolated from naturally infected dogs." <i>Am. J. Vet. Res.</i> 29(6):1251-1257.				
	95	KEIL, D.J. et al. 1998 "Role of <i>Bordetella bronchiseptica</i> in infectious tracheobronchitis in dogs." <i>J. Am. Vet. Med. Assoc.</i> 15:200-207.				
	96	KETTLEBOROUGH, C.A. et al. 1991 "Humanization of a mouse monoclonal antibody by CDR grafting; The importance of framework residues in loop conformation." <i>Protein Eng.</i> 14(7): 773-783.				
	97	KIRKPATRICK, B.C. et al. 1995 "Isolation of Mycoplasma-like organism DNA from plant and insect hosts", Chapter B2, in Razin & Tully (Eds.) <i>Genome Characterisation and Genetics</i> , Section B in <i>Molecular and Diagnostic Procedures in Mycoplasmology</i> . Vol. 1. Academic Press Inc., pp. 105-117.				
	98	LAI, M.M.C. et al. 1997 "The molecular biology of coronaviruses." in <i>Advances in Virus Research</i> Eds. Maramorosch et al., Academic Press, 48:4-22.				
	99	LAMBRECHTS, N. et al. 1999 "Chlamydia-induced septic polyarthritis in a dog." <i>Tydskr. S. Afr. Vet. Assoc.</i> 70(1):40-42.				
	100	LU, G-S et al. 1981 "Improved synthesis of 4-alkoxybenzyl alcohol resin." <i>J. Org. Chem.</i> 46:3433-3436.				
	101	LUCHANSKY, J.B. et al. 1988 "Application of electroporation for transfer of plasmid DNA to <i>Lactobacillus</i> , <i>Lactococcus</i> , <i>Leuconostoc</i> , <i>Listeria</i> , <i>Pediococcus</i> , <i>Bacillus</i> , <i>Staphylococcus</i> , <i>Enterococcus</i> and <i>Propionibacterium</i> ." <i>Mol. Microbiol.</i> 2:637-646.				
	102	MAKELA, M.J. et al. 1998 "Viruses and bacteria in the etiology of the common cold." <i>J. Clin. Microbiol.</i> 36:539-42.				
	103	McCANDLISH, I.A.P. et al. 1978 "A study of dogs with kennel cough." <i>Vet. Rec.</i> 102:298-301.				
	104	McKIERNAN, B.C. et al. 1982 "Bacterial Isolates from the lower trachea of clinically healthy dogs." <i>J. Am. Anim. Hosp. Assoc.</i> 20:139-142.				

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SHEET 8 OF 11

Application No.	10/563, 199
Filing Date	January 3, 2006
First Named Inventor	Brownlie, John
Art Unit	1642
Examiner	Unknown
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FOREIGN PATENT DOCUMENTS

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	105	MORRISON, S.L. et al. 1984 "Chimeric human antibody molecules: mouse antigen-binding domains with human constant region domains." <i>PNAS USA</i> 81:6851-6855.				
	106	NATIONAL OFFICE OF ANIMAL HEALTH LTD. (NOAH)(2001) "Compendium of Data Sheets for Veterinary Products 2002-2003". Pages 216-7 (Duramune); 228-231 (Kavak); 322 (Lactovac); 355-63 (Nobivac); 448-449 (Eurican); 602-4 (Vanguard); 678 (Intrac); 700-702 (Quantum); 703-705 (Rotavec); and 759-61 (Canigen).				
	107	NEIMARK, H. et al. 1995 "Mollicute chromosome size determination and characterization of chromosomes from uncultured mollicutes.", Chapter B3 in Razin & Tully (Eds.) <i>Genome Characterisation and Genetics</i> , Section B in <u>Molecular and Diagnostic Procedures in Mycoplasmology</u> . Vol. 1. Academic Press Inc., pp. 119-131.				
	108	NEUBERGER, M.S. et al. 1998 "Antibody engineering." <i>8th International Biotechnology Symposium</i> Part 2, 792-799				
	109	OBUKHOV, I.L. et al. 2001 "Development of vaccine against chlamydiosis in cats, dogs and fur-bearing animals." <i>Sel'skokhozyaistvennaya Biologiya</i> , 2:68-79, Biosis Database Accession No PREV200100271011 (XP-002301528), Abstract only.			Abstract	
	110	PAGE, R.D.M. 1996 "Treeview: An application to display phylogenetic trees on personal computers." <i>Computer Appl. Biosci.</i> 12: 357-358.				
	111	PAGE, L.A. 1968 "Proposal for the recognition of two species in the genus <i>Chlamydia</i> Jones, Rake, and Stearns." <i>Int. J. Syst. Bacteriol.</i> 18(1): 51-66				
	112	PEARSON, W.R. et al. 1988 "Improved tools for biological sequence comparison." <i>PNAS USA</i> 85(8):2444-2448.				
	113	PFIZER ANIMAL HEALTH TECHNICAL SERVICES. 2002 Label Info For Scour Guard 3K. (http://www.americanlivestock.com/showLabelInfo.jsp?productFamilyId=1075).				
	114	PLUCKTHUN, A. 1991 "Antibody engineering; advances from use of <i>Escherichia coli</i> expression systems." <i>Bio/technology</i> 9:545-551.				
	115	PROFT, T. et al. 1995 "Physical and genetic mapping", Chapter B4 in Razin & Tully (Eds.) "Genome Characterisation and Genetics", Section B in <u>Molecular and Diagnostic Procedures in Mycoplasmology</u> . Vol. 1. Academic Press Inc., pages 133-157.				
	116	QUINN, P.J. et al. (Eds.), 1999 <u>Clinical Veterinary Microbiology</u> published by Mosby, pp.129-130.				
	117	RAKE, G. et al. 1957 "Family II Chlamydiaceae" in Breed et al. (Eds.) <u>Bergey's Manual of Determinative Bacteriology</u> , 7 th Edition, The Williams & Wilkins Co., Baltimore, USA., pp. 957-968				

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	118	RANDOLPH, J.F. et al. 1993 "Prevalence of mycoplasmal and ureaplasmal recovery from tracheobronchial lavages and prevalence of mycoplasmal recovery from pharyngeal swab specimens in dogs with or without pulmonary disease." <i>Am. J. Vet. Res.</i> 54(3):387-91.				
	119	RAZIN, A. et al. 1995 "DNA methylation analysis", Chapter B8, in Razin & Tully (Eds.) "Genome Characterisation and Genetics", Section B in <u>Molecular and Diagnostic Procedures in Mycoplasmology</u> . Vol. 1. Academic Press Inc., pages 185-194.				
	120	RAZIN, S. 1995 "Introductory Remarks", Chapter B1 in Razin & Tully (Eds.) "Genome Characterisation and Genetics", Section B in <u>Molecular and Diagnostic Procedures in Mycoplasmology</u> . Vol. 1. Academic Press Inc., pages 101-103.				
	121	RENAUDIN, J. et al. 1995 "Plasmid and viral vectors for gene cloning and expression in <i>Spiroplasma citri</i> ", Chapter B6 in Razin & Tully (Eds.) "Genome Characterisation and Genetics", Section B in <u>Molecular and Diagnostic Procedures in Mycoplasmology</u> . Vol. 1. Academic Press Inc., pp. 167-178				
	122	RENBAUM, P. et al. 1995 "Expression of mycoplasmal genes in <i>Escherichia coli</i> ", Chapter B10 in Razin & Tully (Eds.) "Genome Characterisation and Genetics", Section B in <u>Molecular and Diagnostic Procedures in Mycoplasmology</u> . Vol. 1. Academic Press Inc., pp. 201-211.				
	123	ROSENDAL, S. 1972 "Mycoplasmas as a possible cause of enzootic pneumonia in dogs." <i>Acta Vet. Scand.</i> 13: 137-139.				
	124	ROSENDAL, S. 1978 "Canine mycoplasmas: pathogenicity of mycoplasmas associated with distemper pneumonia." <i>J. Infect. Dis.</i> 138:203-210.				
	125	ROSENDAL, S. et al. 1977 "Experimental mycoplasmal pneumonia in dogs: electron microscopy of infected tissue." <i>Acta Pathol. Microbiol. Scand. [B]</i> 85(6):462-5.				
	126	SADATSUNE, T. et al. 1975 "Contribution to the study of haemolytic streptococci isolated from dogs." <i>Arq. Inst. Biol. Sao. Paulo.</i> 42:257-264.			Abstract	
	127	SAIKI, R.K. et al. 1986 "Analysis of enzymatically amplified β -globin and HLA-DQ α DNA with allele-specific oligonucleotide probes." 324:163-166				
	128	SAKO, T. et al. 2002 "Chlamydial infection in canine atherosclerotic lesions." <i>Atherosclerosis</i> 162(2):253-9.				
	129	SCHERING-PLOUGH ANIMAL HEALTH NEWS ARCHIVES 1999 "Schering-Plough Animal Health Secures First EU Approval for One Shot Calf Scours Vaccine" Rotavec TM Corona, 2 pages, (http://www.spah.com/usa/news/pr/pr41.cfm)				
	130	SKERRA, A. et al. 1988 "Assembly of a functional immunoglobulin Fv fragment in <i>Escherichia coli</i> ." <i>Science</i> 240:1038-1041.				

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	131	SOUTHERN, E.M. 1975 "Detection of specific sequences among DNA fragments separated by gel electrophoresis." <i>J. Mol. Biol.</i> 98:503-517.				
	132	SPAAN, W. et al. 1988 "Coronaviruses: structure and genome expression." <i>J Gen Virol.</i> 69:2939-52.				
	133	STEPHENSEN, C.B. et al. 1999 "Phylogenetic analysis of a highly conserved region of the polymerase gene from 11 coronaviruses and development of a consensus polymerase chain reaction assay." <i>Virus Res.</i> 60:181-189.				
	134	STORZ, J. et al. 2000 "Coronavirus and <i>Pasteurella</i> infections in bovine shipping fever pneumonia and Evans' criteria for causation." <i>J. Clin. Microbiology.</i> 38(9): 3291-3298.				
	135	SWANGO, L.J. et al. 1970 "A comparison of the pathogenesis and antigenicity of infectious canine hepatitis virus and the A26/61 virus strain (Toronto)." <i>J.A.V.M.A.</i> 156:1687-1696.				
	136	TENNANT, B.J. et al. 1993 "Studies on the epizootiology of canine coronavirus." <i>Vet. Rec.</i> 132(1):7-11.				
	137	THOMPSON, H. et al. 1976 "Experimental respiratory disease in dogs due to <i>Bordetella bronchiseptica</i> ." <i>Res. Vet. Sci.</i> 20:16-23.				
	138	THOMPSON, J.D. et al. 1997 "The Clustal_X windows interface: flexible strategies for multiple sequence alignment aided by quality analysis tools." <i>Nucleic Acids Res.</i> 25(24):4876-82.				
	139	THRUSFIELD, M.V. et al. 1991 "A field investigation of kennel cough: incubation period and clinical signs." <i>J. Small Anim. Pract.</i> 32:215-220.				
	140	TILLOTSON, G.S. 1982 "An evaluation of the API-20 STREP system". API [®] 20 STREP: Identification system for <i>Streptococcaceae</i> and related organisms (bioMérieux [®] SA)" <i>J. Clin. Path.</i> 468-472.				
	141	TIMONEY, J.F. 1987 "The Streptococci". In: Gyles, C.L., Thoen C.O., (Eds.) <u>Pathogenesis of bacterial infections in animals</u> . Iowa State University Press., pp. 12-13.				
	142	TIMONEY, J.F. et al. (Eds), 1988 "The Genus <i>Streptococcus</i> ". In: <u>Hagan and Bruner's Microbiology and Infectious Diseases of Domestic Animals</u> . Comstock Publishing Associates, London., pp. 181-187.				
	143	URAL, O. et al. 2003 " <i>Streptococcus zooepidemicus</i> meningitis and bacteraemia." <i>Scand. J. Infect. Dis.</i> 35(3): 206-207.				
	144	Vaccine Data Sheets 2006 COUGHGUARD-B [®] (Pfizer Animal Health); VANGUARD [®] 5/B (Pfizer Animal Health); NASAGUARD-B [™] (Pfizer Animal Health); PROGARD [®] - KC (Intervet); PROGARD [®] - KC PLUS (Intervet), 10 pages.				

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	145	VERHOEYEN, C. et al. 1988 "Reshaping human antibodies: grafting an antilysozyme activity." <i>Science</i> 239: 1534-1536				
	146	WALKER, G.T. et al. 1992 "Strand displacement amplification - an isothermal, <i>in vitro</i> DNA amplification technique." <i>Nucl. Acid Res.</i> 20:1691-1696.				
	147	WALKER, J.A., et al. 1998 "Molecular basis of variation in protective SzP proteins of <i>Streptococcus zooepidemicus</i> " <i>Am. J. Vet. Res.</i> 59:1129-1133.				
	148	WALKER, R.L. et al. 2003 "Identification of variations in SzP proteins of <i>Streptococcus equi</i> subspecies <i>zooepidemicus</i> and the relationship between protein variants and clinical signs of infection in horses." <i>Am. J. Vet. Res.</i> 64: 976-81.				
	149	WARD, E.S. et al. 1989 "Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>Escherichia coli</i> ." <i>Nature</i> 341:544-546.				
	150	WERTH, D., et al. 1987 "Detection of antibodies to <i>Chlamydia psittaci</i> and <i>Coxiella burnetii</i> in dogs and cats: comparison between enzyme-linked immunosorbent assay, immunoperoxidase-technique, complement fixation test and immunodiffusion test." <i>J. Vet. Med.</i> 34(3): 165-76.			Abstract	
	151	WIDDERS, P.R. et al. 1995 "Immunisation of mares to control endometritis caused by <i>Streptococcus zooepidemicus</i> ." <i>Res. Vet. Sci.</i> 58: 75-81.				
	152	WINTER, G. et al. 1991 "Man-made antibodies." <i>Nature</i> 349:293-299.				
	153	WOŁOSZYN, S. et al. 1994 "Infectious tracheobronchitis in dogs" <i>Medycyna Wet.</i> 50:428-431 (Polish language document), Biosis Data base Accession No. PREV199497512573 (XP-002304443).			Abstract	
	154	WOOD, J.L.N. et al. 1993 "Streptococci and <i>Pasteurella</i> spp. associated with disease of the equine lower respiratory tract." <i>Equine Vet. J.</i> 25:314-318.				
	155	YOUNG, S. et al. 1972 "Pathologic features of experimentally induced chlamydial infection in dogs." <i>Am. J. Vet. Res.</i> 33(2): 377-83.				

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